



RHELGAN
DEVELOPMENT & HUMANITARIAN SYSTEMS

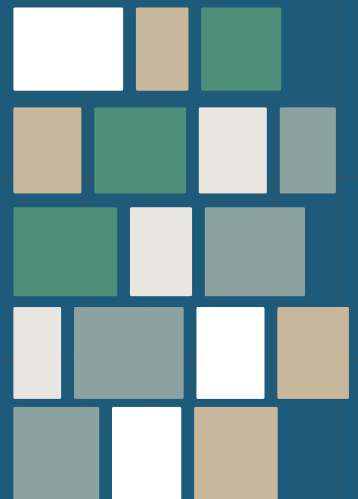
CAPABILITY OVERVIEW / 2026

Housing. Water. Sanitation. Power. Health. Education. Complete Communities.

A commercial project-supply framework for funded development, reconstruction, humanitarian infrastructure and remote-community programmes.

RHELGAN is a
dedicated Apollo NZ
Global programme.

Serious infrastructure. Clear
interfaces. Repeatable systems.



APOLLO NZ GLOBAL

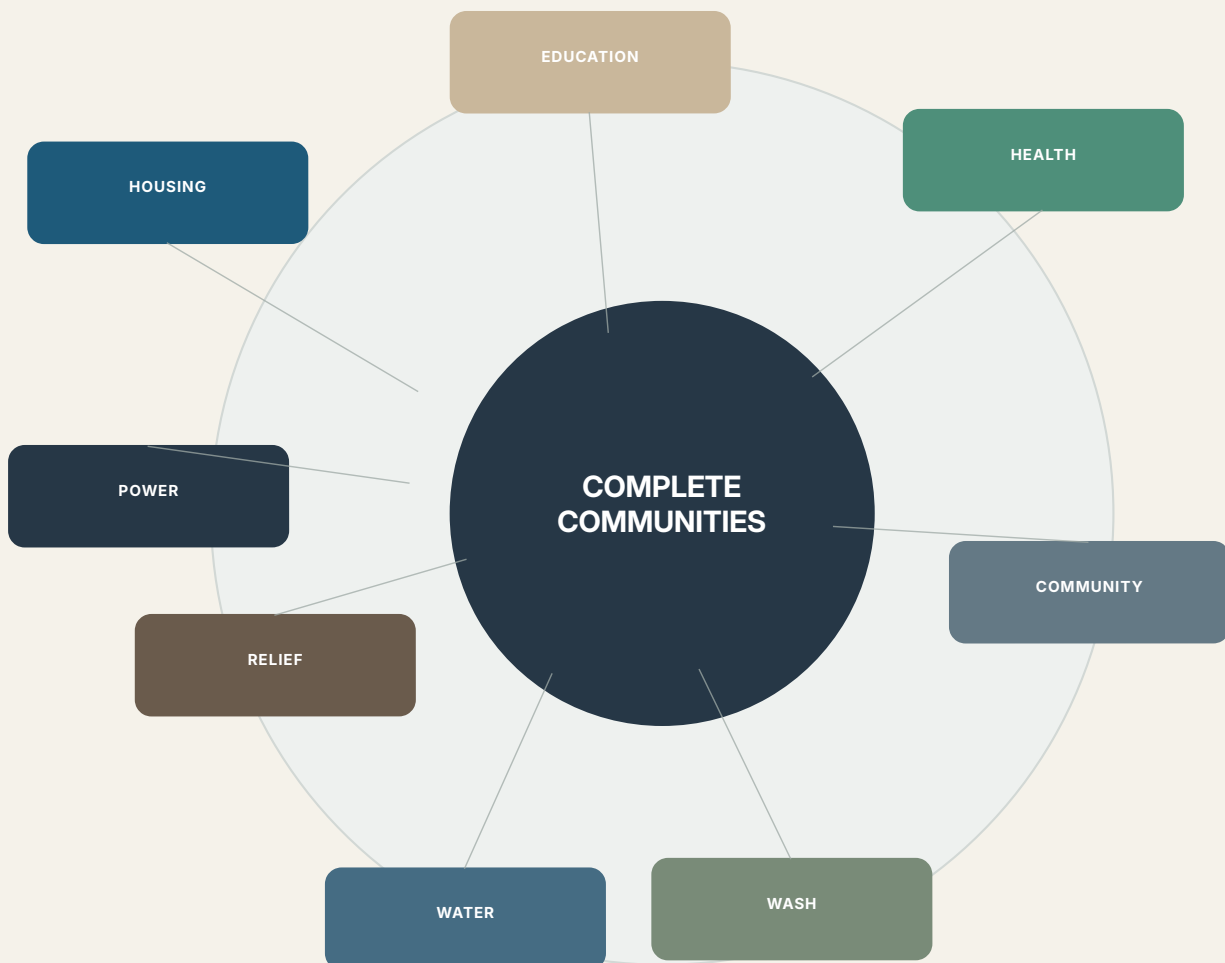
INTERNATIONAL PROJECT SUPPLY



PROGRAMME PROPOSITION

A complete-community system, not a disconnected product catalogue.

RHELGAN organises the project around the functions a community needs to live, learn, recover and operate. Standard systems are used first where they fit; site-specific engineering and local responsibilities remain explicit.



Programme architecture shown at capability level. Final products and technical scope are confirmed project-by-project.



PROGRAMME ARCHITECTURE

Nine systems. One controlled project pathway.

01

Housing & Reconstruction

Emergency, transitional, social, family, accessible and permanent housing pathways.

02

Relief & Recovery

Rapid deployment, durable reconstruction and resilient recovery programmes.

03

Education

Classrooms, schools, training and education-support spaces.

04

Health

Primary clinics, first-aid and selected community-health infrastructure.

05

Community

Community halls, worship buildings, administration and civic facilities.

06

WASH

Toilets, showers, accessible amenities, laundry and hygiene facilities.

07

Water & Wastewater

Project-coordinated treatment, storage, sewage and reuse/discharge pathways.

08

Power

Solar, battery and generator interfaces for resilient or remote programmes.

09

Remote & Field

Accommodation, camps, operations, workshops and difficult-logistics sites.



COMPLETE COMMUNITIES

Five planning scales. One disciplined method.

The number of homes is the starting point - never the whole specification. Population, accessibility, education, health, water, wastewater, power and logistics are sized from the actual project.

50

HOMES

Community Cluster

Small first-stage or reconstruction cluster.

100

HOMES

Village

Repeatable housing with shared-service planning.

250

HOMES

Community Development

Formal masterplanning, phased utilities and logistics.

500

HOMES

Large Community

Expanded social infrastructure and utility resilience.

1,000

HOMES

Major Settlement Programme

Programme-scale masterplanning, procurement and phasing.

Planning scales are not fixed bills of materials.



COMPLETE COMMUNITIES / COMMUNITY CLUSTER

50-HOME PLANNING SCALE

A small village, reconstruction cluster or first-stage development.



PLANNING EMPHASIS

HOUSING MIX

BASIC SHARED SERVICES

SIMPLE LOGISTICS

EXPANDABLE LAYOUT

01

STANDARD SYSTEMS FIRST

02

SIZE INFRASTRUCTURE

03

CLOSE INTERFACES

Illustrative masterplan concept only. Housing counts are programme scales, not surveyed plots. Final roads, lots, drainage, utilities, civil works, setbacks, accessibility and facility capacities are project-specific and require professional design.



COMPLETE COMMUNITIES / VILLAGE

100-HOME PLANNING SCALE

Repeatable housing with stronger shared-service planning.



PLANNING EMPHASIS

HOUSING REPETITION

EDUCATION PATHWAY

CLINIC PATHWAY

UTILITY RESILIENCE

01

STANDARD SYSTEMS FIRST

02

SIZE INFRASTRUCTURE

03

CLOSE INTERFACES

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COMPLETE COMMUNITIES / COMMUNITY DEVELOPMENT

250-HOME PLANNING SCALE

Formal masterplanning, phased utilities and multi-building coordination.



PLANNING EMPHASIS

MASTERPLANNING

PHASED UTILITIES

PROGRAMME LOGISTICS

COMMUNITY CORE

01

STANDARD SYSTEMS FIRST

02

SIZE INFRASTRUCTURE

03

CLOSE INTERFACES

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COMPLETE COMMUNITIES / LARGE COMMUNITY

500-HOME PLANNING SCALE

Expanded social infrastructure, staged delivery and resilience planning.



PLANNING EMPHASIS

MULTIPLE PHASES

EXPANDED HEALTH/EDUCATION

UTILITY REDUNDANCY

QA + PROCUREMENT

01

STANDARD SYSTEMS FIRST

02

SIZE INFRASTRUCTURE

03

CLOSE INTERFACES

Illustrative masterplan concept only. Housing counts are programme scales, not surveyed plots. Final roads, lots, drainage, utilities, civil works, setbacks, accessibility and facility capacities are project-specific and require professional design.



COMPLETE COMMUNITIES / MAJOR SETTLEMENT PROGRAMME

1,000-HOME PLANNING SCALE

Programme-level planning, procurement, logistics and handover.



PLANNING EMPHASIS

PROGRAMME GOVERNANCE

MULTI-SITE LOGISTICS

INFRASTRUCTURE PHASING

OPERATIONAL HANDOVER

01

STANDARD SYSTEMS FIRST

02

SIZE INFRASTRUCTURE

03

CLOSE INTERFACES

Illustrative masterplan concept only. Housing counts are programme scales, not surveyed plots. Final roads, lots, drainage, utilities, civil works, setbacks, accessibility and facility capacities are project-specific and require professional design.



STANDARD-FIRST DELIVERY

Repeatable configurations before custom engineering.

RHELGAN uses repeatable building and infrastructure pathways wherever practical so programmes can scale without turning every requirement into a one-off.

HOUSING

Compact Home · Family Home · Larger Family Home · Extended Family Home · Accessible Home

Final configuration follows the project brief.

EDUCATION

Classroom Block · Community School

Class counts and support spaces follow the education brief.

HEALTH

Primary Clinic · Community Health Centre

Room schedules and medical services stay project-specific.

WASH

Ablution Block · Shower + Hygiene

Fixture counts and accessibility follow actual users.

COMMUNITY

Community Hall · Worship Hall · Admin / Operations

Occupancy, span, kitchen/storage and services are project-led.

UTILITIES

Water Treatment Hub · Community Power Hub

Final utility systems require project-specific technical validation.

These are planning pathways only. Final dimensions, specifications and performance requirements are confirmed for each project.



CLIMATE & RESILIENCE

Do not turn a region into a specification.

Regional context changes the questions asked early. Site data, local law and professional engineering still control the final solution.

01

Pacific island / coastal / cyclone

- Wind + cyclone criteria
- Salt + corrosion
- Driving rain + drainage
- Island logistics
- Water security
- Backup power

02

Hot-dry / Gulf / arid

- Peak temperature
- Solar heat gain
- Dust + sand
- Cooling load
- Water scarcity
- Material suitability

03

Tropical / humid / high-rainfall

- Heavy rain
- Humidity + condensation
- Mould / ventilation
- Flood + drainage
- Water-source variability
- Maintainability

04

Cool / high-altitude / remote

- Thermal design
- Snow / ice where relevant
- Altitude derating
- Remote access
- Fuel + spares
- Seasonal construction

05

Wildfire / extreme heat interface

- Hazard mapping
- Ember exposure
- Defensible-space interface
- External materials
- Emergency water/power
- Access + egress

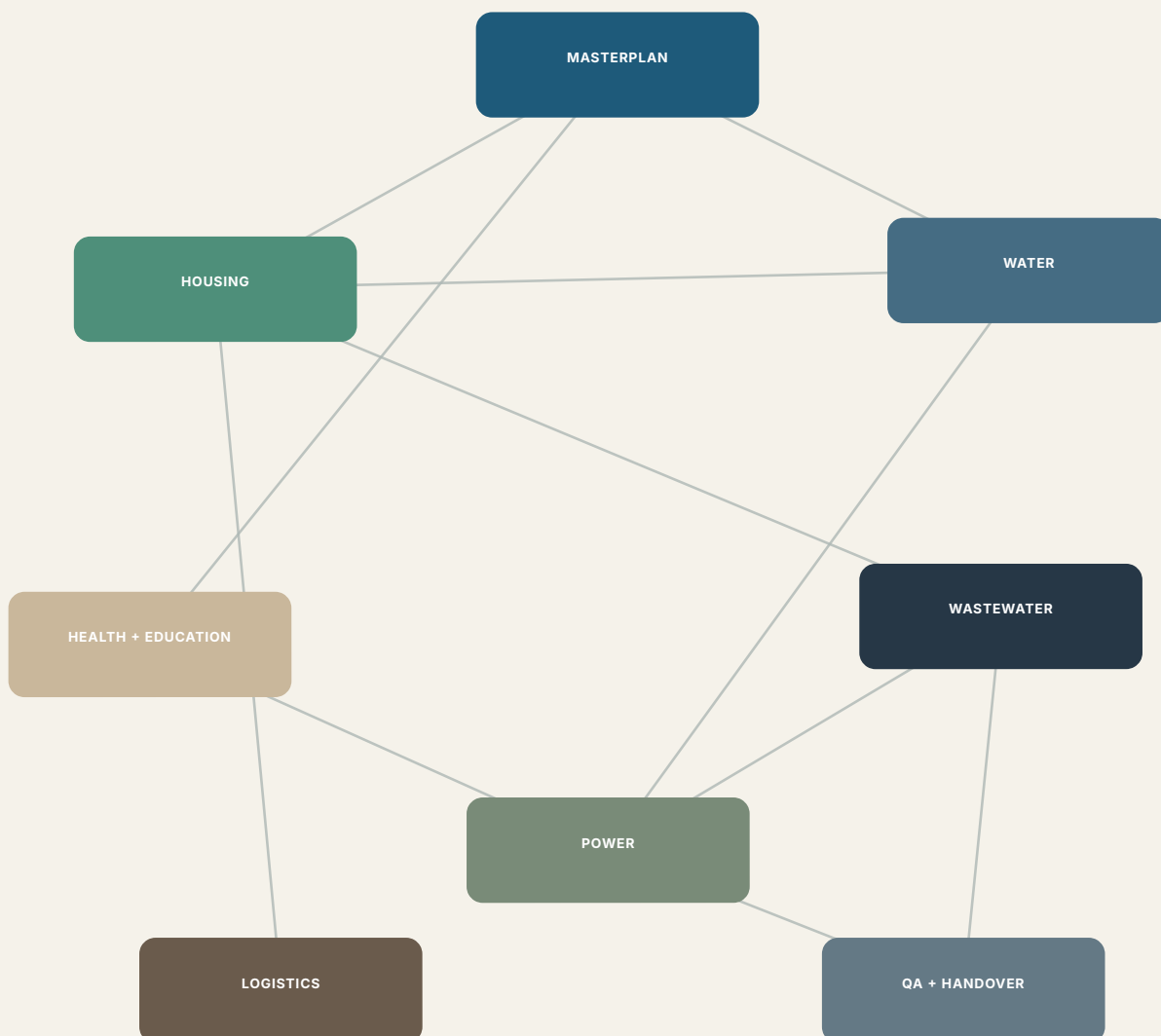
Country, site and project criteria always override regional shorthand.



PROJECT INTERFACES

The hand-offs are where programme risk accumulates.

Each critical interface needs a named design owner before the project moves into detailed engineering or procurement.



MASTERPLAN → HOUSING

Plots, access, levels, setbacks and foundation zones.

HOUSING → UTILITIES

Occupancy, fixtures and daily/peak demand.

UTILITIES → POWER

Electrical loads, duty cycles and criticality.



DELIVERY CONTROL

Do not move to the next stage until the project basis is clear.

RHELGAN uses stage gates to keep unknowns visible and prevent commercial decisions getting ahead of project evidence.





RHELGAN PROJECT BRIEF

Start with what is known. Unknown answers can stay unknown.

The purpose of the first brief is to identify the project correctly, then structure the next technical questions around the real programme.

01

Country + site

Country/territory, location, access and urban/remote/island context.

02

Programme scale

Homes, people, beds, classrooms, staff or other useful capacity.

03

Buildings required

Housing, accessibility, education, health, community, WASH and operations.

04

Climate + hazards

Wind/cyclone, seismic, flood, heat, rainfall, corrosion, wildfire or other conditions.

05

Water + wastewater

Source water, treatment, municipal connections, discharge or reuse expectations.

06

Power

Grid condition, critical loads and solar/battery/generator resilience interest.

07

Logistics + installation

Port, road/site access, lifting, local labour and staging.

08

Procurement + timing

RFP/tender status, target dates, donor/client requirements and technical evidence.

A structured brief helps the project team identify the right technical questions before detailed design and pricing.



EVIDENCE + PROCUREMENT CONTROL

A credible programme is built from evidence, not catalogue claims.

Before a system is commercially frozen, RHELGAN needs current technical, logistics, installation, warranty and QA information for the exact product being offered.

TECHNICAL

- Dimensioned drawings
- Structural/material schedule
- Wind/seismic/climate options
- Electrical / services data

LOGISTICS

- Packing / 40HQ efficiency
- Weights + lifting
- Port/site handling
- Installation sequence

DELIVERY

- Crew size + time
- Tools + supervision
- Commissioning
- Local labour interface

LIFECYCLE

- Warranty
- Spare parts
- O&M manuals
- After-sales support

QUALITY + EVIDENCE

- Quality records
- Inspection requirements
- Relevant project references
- Certificates / reports

COMMERCIAL

- Lead time
- Availability
- Scope boundaries
- Warranty / support

Final product selections, technical evidence, delivery scope and responsibilities are confirmed for the specific project.

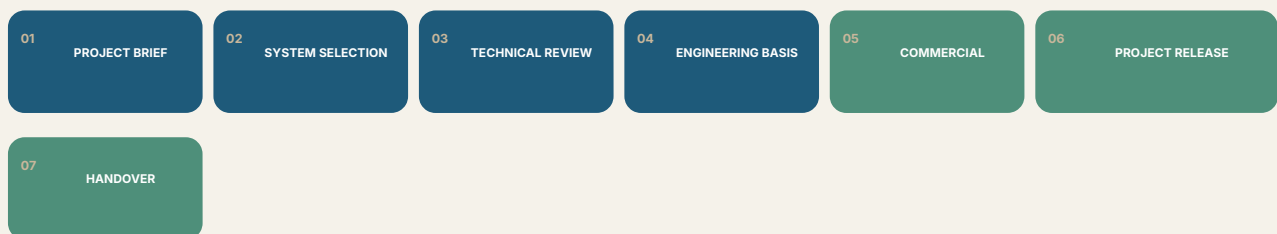


NEXT STEP

Send the project before every detail is resolved.

Start with the country, approximate programme scale, building types, climate/site conditions, known water and power information, target timing and procurement route.

RHELGAN PROJECT PATHWAY



RHELGAN

DEVELOPMENT & HUMANITARIAN SYSTEMS

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Capability overview. Final products, specifications, project responsibilities, pricing, engineering and compliance are confirmed project-by-project.